

Docket No. 000309.00049

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: William J. Carroll
Serial No: 10/659,278
Filed: September 11, 2003
For: Surface electrical stimulation for increasing the quality and quantity of synovial fluid in joints

GAU: 3762
Confirmation No. 5691
Examiner: Unknown

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
 A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a copy of applicant's pending application(s) or issued patent(s) which may be related to the present application. These documents are listed on form PTO-1449, also attached.
 A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- Each item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in any counterpart foreign application not more than three months prior to the filing of this statement.
 No item of information contained in this information disclosure statement was cited for the first time in any communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.
 This Information Disclosure Statement is being filed within three months of the filing date of the subject patent application.
 This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

PETITION

- Applicant(s) hereby request consideration of the attached information. A check is attached in the amount of the Petition fee required under 37 CFR §1.17(i)(1).

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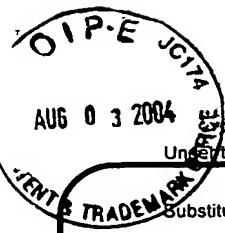
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Respectfully submitted,

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Attorney of Record
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AUG 03 2004

PTO/SB/08a

Approved for use through 07/31/2006. OMB 0651-0031

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Sheet 1

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U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		PCT/US03/37372 International Search Report	11/21/2003	International Rehabilitative Sciences, Inc.		

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Sheet

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Complete if Known

Application Number	10/659,278
Filing Date	September 11, 2003
First Named Inventor	William J. Carroll
Art Unit	3762
Examiner Name	Unknown

Attorney Docket Number 000309.00049

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		KATAYAMA Y., Deep brain stimulation therapy for involuntary movements, Rinsho Shinkeigaku, 2001/12/01 00:00; 41(12):1079-80, 1 page	
		BENABID AL, et al., Deep bbrain stimulation of the corpus luisi (subthalamic nucleus) and other targets in Parkinson's disease. Extension to new indications such as dystonia and epilepsy, J. Neurol. 2001/09/01 00:00; 248 Suppl 3:III37-47, 2 pages	
		ALLERT N., et al., Effects of bilateral pallidal or subthalamic stimulation on gait in advanced Parkinson's disease, Mov Disord. 2001/11/01 00:00; 16(6):1076-85, 2 pages	
		UTTI RJ, et al., Extended Follow-up of Unilateral Deep Brain Stimulation for Tremor, Deep brain stimulation remains an effective treatment for tremor for at least 3 years, according to this article, P03.1123; A220-221	
		OBWEGESER AA, et al., Quantitative and qualitative outcome measures after thalamic deep brain stimulation to treat disabling tremors, Neurosurgery, 48(2): 274-81, discussion 281-4 2001, 2-page Article	
		OBWEGESER AA, et al., Simultaneous thalamic deep brain stimulation and implanatable cardioverter-defibrillator, Mayo Clin Proc, 76(1): 87-9, 2001, 2-page Abstract	
		OBWEGESER AA, et al., Thalamic stimulation for the treatment of midline tremors in essential tremor patients, Nekurology, 54(12): 2342-4 2000, 2-page Abstract	
		OH MY, et al., Deep brain stimulator electrodes used for lesioning: proof of principle, Neurosurgery, 2001/08/01 00:00; 49(2): 363-7; discussion 367-9, 2-page Article	
		RACETTE BA, et al., Thalamic stimulation for primary writing tremor, J Neurol. 2001/05/01 00:00; 248(5): 380-2, 2-page Report	
		ROCCHI L, et al, Effects of deep brain stimulation and levodopa on postural sway in Parkinson's disease, J. Neuro Neurosurg Psychiatry, 2002 Sep; 73(3):267-74, 2-page Article	

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		NASSER JA, et al, Deep brain stimulation of VIM thalamic nucleus for tremor control, Arq Neuropsiquiatr. 2002 Jun; 60(2-B):429-34, 1-page Article	
		RACETTE BA, et al., Ipsilateral thalamic stimulation after thalamotomy for essential tremor. A case report., Stereotact Funct Neurosurg. 2000/01/01 00:00; 75(4): 155-9, 2-page Article	
		RERZAI AR, et al., Neurostimulation systems for deep brain stimulation: in vitro evaluation of magnetic resonance imaging-related heating at 1.5 tesla, J Magn Reson Imaging, 2002/03/01 00:00; 15(3):241-50, 2-page Article	
		MAYA PINES, New Imaging Techniques That Show the Brain at Work: Brain Scans That Spy on the Senses, Seeing, Hearing, and Smelling the World, A Report from the Howard Hughes Medical Institute, 2-page Article	
		MAYA PINES, New Imaging Techniques That Show the Brain at Work: The Next Generation of Brain Scans, Seeing, Hearing, and Smelling the World, A Report from the Howard Hughes Medical Institute, 2-page Article	
		Oregon Imaging Article, P.E.T. Scan - Patient Information, 2 page Article	
		CIGNA CORPORATION, Positron Emission Tomography (PET) Scans - Medical Coverage, All States, 1999, 7-page Article	
		REZAI AR, et al., Neurostimulation systems for deep brain stimulation: in vitro evaluation of magnetic resonance imaging-related heating at 1.5 tesla, J magn Reson Imaging, 2002/03/01 00:00; 15(3):241-50, 2-page Article	
		MOBILE PET SYSTEMS, INC., Clinical Applications, 5-pages	
		NEUROLOGICAL ASSOCIATES, INC., Deep Brain Stimulation, West Virginia, 6-page Article	

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		MOHAMED A. HAMZA, M.D., et al., Effect of the Duration of Electrical Stimulation on the Analgesic Response in Patients with Low Back Pain, Anesthesiology, December 1999, pp. 1622-1627, Vol. 91, No. 6	
		EL-SAYED A. GHONAME, M.D., et al., The Effect of Stimulus Frequency on the Analgesic Response to Percutaneous Electrical Nerve Stimulation in Patients with Chronic Low Back Pain, Anesthesia & Analgesia, April 1999, pp. 841-846, Vol. 88, No. 4	
		RICHARD E. SEROUSSI, MD, et al., Effectiveness of Percutaneous Neuromodulation Therapy for Patients with Chronic and Severe Low Back Pain, 2003, pp. 22-30, Vol. 3, Issue 1, Pain Practice	
		EL-SAYED A. CHONAME, MD, et al., Percutaneous Electrical Nerve Stimulation for Low Back Pain, JAMA, March 3, 1999, Vol. 281, No. 9	
		ANDREW J. ROBINSON, Clinical Electrophysiology, Electrotherapy and Electrophysiologic Testing, pp. cover, 285, 288-290, Second Edition, Williams & Wilkins	
		M.I. JOHNSON, et al., An in-depth study of long-term users of transcutaneous electrical nerve stimulation (TENS). Implications for clinical use of TENS, Pain 41, 1991, pp. 221-229, Elsevier Science Publishers B.V.	
		J.S. HAN, et al., Effect of low- and high-frequency TENS on Met-enkephalin-Arg-Phe and dynorphin A immunoreactivity in human lumbar CSF, 1991, pp. 295-298, Elsevier Science Publishers B.V.	
		ROGER M. NELSON, et al., Clinical Electrotherapy, third edition, Appleton & Lange, Stamford, Connecticut	
		Vertis Percutaneous Neuromodulation Therapy (PNT), Peer Review Network, Inc., PRN Newsletter, November 2002, Vol. 9, No. 6., pp. 1-5	
		PRIYA GOPALKRISHNAN, MS, et al., Effect of Varying Frequency, Intensity, and Pulse Duration of Transcutaneous Electrical Nerve Stimulation on Primary Hyperalgesia in Inflamed Rats, Arch Phys Med Rehabil, Vol. 81, July 2000, pp. 984-990	
		M.I. JOHNSON, et al., Analgesic effects of different frequencies of transcutaneous electrical nerve stimulation on cold-induced pain in normal subjects, Pain 39 (1989), pp. 231-236, Elsevier Science Publishers B.V.	
		SERGE MARCHAND, M.Sc., et al., Modulation of Heat Pain Perception by High Frequency Transcutaneous Electrical Nerve Stimulation (TENS), The Clinical Journal of Pain, Vol. 7, No. 2, 1991, pp. 122-129	

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